# **Annual Air Emission Inventory** and Emission Statement **Facility Report**

## **General Facility Information**

Facility ID:

00022

County - 027

State - 23

Year Inventory: 2008

Facility Name: SPRAGUE ENERGY - SEARSPORT TERMINAL

SIC: 5171

Street Address: MACK POINT - TRUNDY ROAD

Mail Address: P.O. BOX 435

ME 04974

**Emissions** 

Contact: DUANE SEEKINS

Telephone #: 2075482531

Comment:

## **Group Information**

Group Id:

001

SEARSPORT

Group Description: TANK #1 - #6 FUEL OIL

Actual Operating Schedule for This Group:

Hours/Day 24

Start Time: 0001

Design Capacity:

Desgin Cap. Units:

Days/Week

7 Weeks/Year 52

End Time: 2359

Percent Quarterly Throughput:

Mar.- May

Jun.- Aug. Sept.- Nov. O3 Season Days 91

Dec.-Feb. 25

25

25

25

Comment:

### **Process Unit Information**

Process Unit ID:

Stack #: 99

Description: BREATHING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301065

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Grade 6 Fuel Oil: Breathing Loss (250000 Bbl. Tank Size)

Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Residual Oil (No. 6) S

Exit Temp.: 0 Flow Rate:

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: Monthly Throughtput:

December: 0

March: 0

June: 0

1

Heat Content:

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 3927.76

Units: 1000 Gallon-Years Residual Oil (No. 6) S

0.00

Comment:

# **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

Estimated Emissions - No RE

Factor:

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

VOLATILE ORGANIC COMPOUNDS

3

Comment:

**Process Unit Information** 

2 Process Unit ID:

Stack #: 99

Description: WORKING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301075

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2 Velocity: 0.0

Grade 6 Fuel Oil: Working Loss (Independent Tank Diameter) AP-42 Units: 1000 Gallons Residual Oil (No. 6) Throug

Exit Temp.: 0

0.00 **Heat Content:** 1 Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

Flow Rate:

Monthly Throughtput:

March: 0

June: 0

September: 0

January: 0

December: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 8408.49 Comment:

**Process Unit Control Equipment** 

Units: 1000 Gallons Residual Oil (No. 6) Throug

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Over All %

Pollutant VOC

Pollutant Description **VOLATILE ORGANIC COMPOUNDS**  Method: 3

Factor:

Tons/Yr: 0.00361

Capture Control

Comment:

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### **Group Information**

Group Id:

Design Capacity:

002

Group Description: TANK #3 - #6 OIL

Actual Operating Schedule for This Group:

Hours/Day 24 Start Time: 0001

Days/Week 7

Weeks/Year 52 End Time: 2359

O3 Season Days 91

Percent Quarterly Throughput:

Dec.-Feb.

Mar.- May 25

Jun.- Aug.

25 25

Sept.- Nov.

Desgin Cap. Units:

Comment:

25

#### **Process Unit Information**

Process Unit ID:

1

Description: BREATHING LOSS

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301065

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Height: 0

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Grade 6 Fuel Oil: Breathing Loss (250000 Bbl. Tank Size)

Velocity: 0.0 Exit Temp.: 0

AP-42 Units: 1000 Gallon-Years Residual Oil (No. 6) S

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

July: 0

1

**Heat Content:** 

September: 0

January: 0 February: 0 April: 0 May: 0

August: 0

October: 0 November: 0

Annual Throughtput: 6023.60

Pollutant Description

Units: 1000 Gallon-Years Residual Oil (No. 6) S

0.00

Comment:

# **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

Process Unit l	Fmiccione
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Estimated Emissions - No RE Tons/Yr:

Factor:

Over All % Capture Control

Pollutant VOC

**VOLATILE ORGANIC COMPOUNDS** 

Method: 3

Comment:

Page 3 06/26/2009 10:01:34

Process Unit ID:

2

Description: WORKING LOSS

Stack #: 99

Description: FUGITIVE

Source Classfiication Code (SCC): 40301075

Description: Petroleum Product Storage at Refineries

Height: 0 Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Grade 6 Fuel Oil: Working Loss (Independent Tank Diameter)

Velocity: 0.0

AP-42 Units: 1000 Gallons Residual Oil (No. 6) Throug

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000

Percent Ash:

Heat Content: 0.00

Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 12895.2

Units: 1000 Gallons Residual Oil (No. 6) Throug

Comment:

# **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

### **Process Unit Emissions**

Estimated Emissions - No RE

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr: Factor:

Capture Control

VOC

VOLATILE ORGANIC COMPOUNDS

3

0.00554

Comment:

# **Group Information**

Group Id:

003

Group Description: TANK #4 - #6 OIL

Actual Operating Schedule for This Group:

52

Design Capacity:

Desgin Cap. Units:

Hours/Day 24 Start Time: 0001 Days/Week 7

Percent Quarterly Throughput:

Dec.-Feb.

Mar.- May

Weeks/Year O3 Season Days 91 End Time: 2359

Jun.- Aug. Sept.- Nov. 25 25 25 25

Comment:

Process Unit ID:

Stack #: 99

Description: BREATHING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301065

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Grade 6 Fuel Oil: Breathing Loss (250000 Bbl. Tank Size) AP-42 Units: 1000 Gallon-Years Residual Oil (No. 6) S

Velocity: 0.0 Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

Monthly Throughtput:

**Heat Content:** 0.00

Flow Rate:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 7057.76

Units: 1000 Gallon-Years Residual Oil (No. 6) S

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr: Factor:

Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

Comment:

**Process Unit Information** 

Process Unit ID:

2

Stack #: 99

Description: WORKING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301075

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Grade 6 Fuel Oil: Working Loss (Independent Tank Diameter)

Velocity: 0.0

AP-42 Units: 1000 Gallons Residual Oil (No. 6) Throug

Exit Temp.: 0

1 0.00

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

**Heat Content:** 

Flow Rate: 0

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Units: 1000 Gallons Residual Oil (No. 6) Throug Annual Throughtput: 15109.2

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Tons/Yr: Method: Factor: Pollutant Pollutant Description

Estimated Emissions - No RE

Over All % Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

0.00649

Comment:

**Group Information** 

Group Id:

Design Capacity:

004

Group Description: TANK #11- #2 OIL

Actual Operating Schedule for This Group:

7

52

Hours/Day

24 Start Time: 0001

Days/Week

Weeks/Year

End Time: 2359

Dec.-Feb. 25

Mar.- May

Sept.- Nov. Jun.- Aug.

Desgin Cap. Units:

O3 Season Days 91

25

Percent Quarterly Throughput:

25

25

Comment:

**Process Unit Information** 

Process Unit ID:

1

Stack #: 99

**Description: BREATHING LOSS** 

Description: FUGITIVE

Source Classification Code (SCC): 40301020

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Height: 0

Fixed Roof Tanks (Varying Sizes) Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size)

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Exit Temp.: 0 Flow Rate:

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content:

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 27.848

Pollutant Description

Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Over All % Capture Control

Pollutant VOC

**VOLATILE ORGANIC COMPOUNDS** 

Method: 3

Tons/Yr: Factor:

0.001805

Comment:

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Process Unit ID:

**Description: WORKING LOSS** 

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301021

Description: Petroleum Product Storage at Refineries

Height: 0 Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Distillate Fuel #2: Working Loss (Tank Diameter Independent)

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: .073

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Over All %

Pollutant

Pollutant Description

Method:

Factor: Tons/Yr: Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

Comment:

**Group Information** 

Group Id:

005

25

Group Description: TANK #12 - #2 FUEL OIL

Actual Operating Schedule for This Group:

Design Capacity:

Desgin Cap. Units:

25

Hours/Day Start Time: 0001 24 7

Percent Quarterly Throughput:

Days/Week

Weeks/Year 52 End Time: 2359

Jun.- Aug.

Dec.-Feb. Mar.- May Sept.- Nov.

25

O3 Season Days 91

25 Comment:

Process Unit ID:

1

Stack #:

Description: WORKING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301021

Description: Petroleum Product Storage at Refineries

Height: 0 Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Distillate Fuel #2: Working Loss (Tank Diameter Independent)

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00 Heat Content: Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: .073

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Factor:

1

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

VOLATILE ORGANIC COMPOUNDS

3

Comment:

#### **Process Unit Information**

Process Unit ID:

2

Stack #: 99

Description: BREATHING LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301020

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size) AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Velocity: 0.0 Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00

**Heat Content:** 

Flow Rate:

Monthly Throughtput:

March: 0

June: 0

December: 0 January: 0

April: 0

July: 0

September: 0 October: 0

February: 0

May: 0

Annual Throughtput: 27.848

August: 0

November: 0

Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Estimated Emissions - No RE

Over All % Method: Tons/Yr: Pollutant Description Factor: Capture Control Pollutant

VOC 3 VOLATILE ORGANIC COMPOUNDS 0.001805

Comment:

**Group Information** 

Group Id: 006 Actual Operating Schedule for This Group: Group Description: TANK #101- #2 FUEL OIL

Hours/Day 24 Start Time: 0001

Design Capacity: Desgin Cap. Units: Days/Week 7

Weeks/Year 52 End Time: 2359 Percent Quarterly Throughput:

O3 Season Days 91 Dec.-Feb. Mar.- May Jun.- Aug. Sept.- Nov.

25 25 25 25

Comment:

**Process Unit Information** 

Process Unit ID: 1 Stack #: 99 **Description: WORKING LOSS** Description: FUGITIVE

Source Classification Code (SCC): 40301021 Height: 0

Description: Petroleum Product Storage at Refineries Diameter: 0.00 Fixed Roof Tanks (Varying Sizes) Vent Height: 2

Distillate Fuel #2: Working Loss (Tank Diameter Independent) Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0 Flow Rate:

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 **Heat Content:** 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0 October: 0 January: 0 April: 0 July: 0

May: 0 August: 0 November: 0 February: 0

Annual Throughtput: 7.6 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Over All % Method: Factor: Tons/Yr: Capture Control Pollutant Pollutant Description

VOC VOLATILE ORGANIC COMPOUNDS 3 1.00e-5

Comment:

Process Unit ID:

Description: BREATHING LOSS

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301020

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Height: 0

Fixed Roof Tanks (Varying Sizes)

Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size)

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

**Heat Content:** 

Flow Rate:

1

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 590.016

Pollutant Description

Units: 1000 Gallon-Years Distillate Oil (No. 2)

0.00

Comment:

### **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

#### **Process Unit Emissions**

Method:

Estimated Emissions - No RE Tons/Yr: Factor:

Over All % Capture Control

Pollutant VOC

VOLATILE ORGANIC COMPOUNDS

3

0.04541

Comment:

# **Group Information**

Group Id:

007

Group Description: TANK #105 - #2 OIL

Actual Operating Schedule for This Group:

7

52

Hours/Day

24 Start Time: 0001

Days/Week

Weeks/Year

End Time: 2359

O3 Season Days 91

Dec.-Feb.

Design Capacity:

Mar.- May 25

Percent Quarterly Throughput:

Jun.- Aug. 25

Desgin Cap. Units:

Sept.- Nov. 25

Comment:

25

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Process Unit ID: 1 Stack #: 99

Description: BREATHING LOSS Description: FUGITIVE

Source Classification Code (SCC): 40301020 Height: 0

Description: Petroleum Product Storage at Refineries

Fixed Roof Tanks (Varying Sizes)

Diameter: 0.00

Vent Height: 2

Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size)

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Exit Temp.: 0

Flow Rate: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0

January: 0 April: 0 July: 0 October: 0

February: 0 May: 0 August: 0 November: 0

Annual Throughtput: 5007.58 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Pollutant Description Method: Estimated Emissions - No RE Over All %

Method: Factor: Tons/Yr: Capture Control

VOC VOLATILE ORGANIC COMPOUNDS 3 0.38749

Comment:

**Process Unit Information** 

Process Unit ID: 2 Stack #: 99

Description: WORKING LOSS Description: FUGITIVE

Source Classification Code (SCC): 40301021 Height: 0
Description: Petroleum Product Storage at Refineries Diameter: 0.00

Fixed Roof Tanks (Varying Sizes)

Vent Height: 2

Distillate Fuel #2: Working Loss (Tank Diameter Independent)

Vent rieight. 2

Vent rieight. 2

Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0

January: 0 April: 0 July: 0 October: 0

February: 0 May: 0 August: 0 November: 0

Annual Throughtput: 13.046 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Estimated Emissions - No RE Method: Pollutant Description

Over All % Factor: Tons/Yr: Capture Control

VOC **VOLATILE ORGANIC COMPOUNDS** 3 8.50e-5

Comment:

Group Description: TANK #107 - #2 OIL

25

Pollutant

**Group Information** 

Group Id: 008

25

Actual Operating Schedule for This Group:

Start Time: 0001

Hours/Day 24 Design Capacity: Desgin Cap. Units: Days/Week

Weeks/Year 52 End Time: 2359 Percent Quarterly Throughput:

O3 Season Days 91 Dec.-Feb. Mar.- May Jun.- Aug. Sept.- Nov.

25

Comment:

25

**Process Unit Information** 

Process Unit ID: 1 Stack #: 99

Description: BREATHING LOSS Description: FUGITIVE

Source Classification Code (SCC): 40301020 Height: 0

Description: Petroleum Product Storage at Refineries Diameter: 0.00 Fixed Roof Tanks (Varying Sizes) Vent Height: 2

Distillate Fuel #2: Breathing Loss (250000 Bbl. Tank Size) Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2) Exit Temp.: 0

Flow Rate: **Heat Content:** Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0 January: 0 April: 0 July: 0 October: 0

February: 0 May: 0 August: 0 November: 0

Units: 1000 Gallon-Years Distillate Oil (No. 2) Annual Throughtput: 2014.87

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Over All % Tons/Yr: Factor: Pollutant Pollutant Description Method: Capture Control

VOC **VOLATILE ORGANIC COMPOUNDS** 3 0.156175

Comment:

Process Unit ID: 2

Description: WORKING LOSS

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301021

Description: Petroleum Product Storage at Refineries

Fixed Roof Tanks (Varying Sizes)

Distillate Fuel #2: Working Loss (Tank Diameter Independent)

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

0.000 Percent Ash: 0.00 Heat Content:

Velocity: 0.0 Exit Temp.: 0

Height: 0

Diameter: 0.00

Flow Rate:

Vent Height: 2

Monthly Throughtput:

Fuel Quality: Percent Sulfur:

December: 0 January: 0

April: 0 May: 0

March: 0

June: 0 July: 0 1

September: 0 October: 0

August: 0 November: 0

Annual Throughtput: 5.249

February: 0

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

## **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

### **Process Unit Emissions**

Estimated Emissions - No RE

Factor:

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

3.50e-5

Actual Operating Schedule for This Group:

Comment:

### **Group Information**

Group Id:

009

Group Description: TANK #102 - #2 OIL

Design Capacity:

Hours/Day 24

Start Time: 0001

Desgin Cap. Units:

Days/Week 7

Percent Quarterly Throughput: Dec.-Feb. Mar.- May

Jun.- Aug. Sept.- Nov. Weeks/Year

End Time: 2359

25

25

25

25

52 O3 Season Days 91

Comment:

Process Unit ID:

1

**Description: STANDING LOSS** 

Stack #:

Description: FUGITIVE

Source Classification Code (SCC): 40301155

Description: Petroleum Product Storage at Refineries

Height: 0 Diameter: 0.00

Floating Roof Tanks (Varying Sizes) Distillate Fuel #2: Standing Loss - Internal Vent Height: 2

Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000

0.00 **Heat Content:**  Flow Rate:

Monthly Throughtput:

December: 0

March: 0

Percent Ash:

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 2917.11

Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Factor:

Over All %

Pollutant\_

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

0.006925

Comment:

**Process Unit Information** 

Process Unit ID:

2

Stack #: 99

Description: WITHDRAWAL LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301120

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Floating Roof Tanks (Varying Sizes) Distillate Fuel #2: Withdrawal Loss

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

**Heat Content:** 

0.00

Flow Rate:

Monthly Throughtput:

June: 0

September: 0

December: 0 January: 0

March: 0 April: 0

July: 0

1

October: 0

February: 0

May: 0

August: 0

November: 0

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Annual Throughtput: 3840.00

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

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Estimated Emissions - No RE Method: Pollutant Description <u>Pollutant</u>

Factor: Tons/Yr:

Over All % Capture Control

VOC **VOLATILE ORGANIC COMPOUNDS** 3 0.00405

Comment:

**Group Information** 

Group Id:

Design Capacity:

010

Group Description: TANK #103 - #2 OIL

Actual Operating Schedule for This Group:

Hours/Day 24

Start Time: 0001

Desgin Cap. Units: Days/Week

Percent Quarterly Throughput:

Dec.-Feb. Mar.- May

25

Jun.- Aug. Sept.- Nov. 25 25

7 Weeks/Year 52

End Time: 2359

O3 Season Days 91

Comment:

25

**Process Unit Information** 

1 Process Unit ID: Stack #:

**Description: STANDING LOSS** Description: FUGITIVE

Source Classification Code (SCC): 40301155 Height: 0 Description: Petroleum Product Storage at Refineries

Diameter: 0.00 Floating Roof Tanks (Varying Sizes) Vent Height: 2 Distillate Fuel #2: Standing Loss - Internal Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2) Exit Temp.: 0

Flow Rate: Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0 October: 0 January: 0 April: 0 July: 0 November: 0 February: 0 May: 0 August: 0

Annual Throughtput: 4514.75 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Over All % Tons/Yr: Method: Factor: Pollutant Pollutant Description Capture Control

VOC **VOLATILE ORGANIC COMPOUNDS** 3 0.00955

Comment:

Process Unit ID:

Description: WITHDRAWAL LOSS

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301120

Height: 0

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Floating Roof Tanks (Varying Sizes) Distillate Fuel #2: Withdrawal Loss

Vent Height: 2 Velocity: 0.0

Exit Temp.: 0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00 **Heat Content:**  Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 5943.08

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Factor:

Over All %

\_Pollutant\_

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

0.00502

Actual Operating Schedule for This Group:

Comment:

**Group Information** 

Group Id:

011

Group Description: TANK #104 - #2 FUEL OIL

Design Capacity:

Desgin Cap. Units:

Hours/Day 24 Start Time: 0001 7

Days/Week

Dec.-Feb.

Percent Quarterly Throughput:

Weeks/Year

End Time: 2359 52 O3 Season Days 91

25

Mar.- May 25

Jun.- Aug. 25

Sept.- Nov. 25

Comment:

Process Unit ID:

Stack #: 99

Description: STANDING LOSS

Description: FUGITIVE

Source Classfiication Code (SCC): 40301155

Height: 0

Description: Petroleum Product Storage at Refineries Floating Roof Tanks (Varying Sizes)

Diameter: 0.00

Distillate Fuel #2: Standing Loss - Internal

Vent Height: 2 Velocity: 0.0

Exit Temp.: 0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00 Heat Content: Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 4460.06

Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE

Factor:

1

Over All %

Pollutant

Pollutant Description

Method:

Tons/Yr:

Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

0.00955

Comment:

**Process Unit Information** 

Process Unit ID:

2

Stack #: 99

Description: WITHDRAWAL LOSS

Description: FUGITIVE

Source Classification Code (SCC): 40301120

Height: 0 Diameter: 0.00

Description: Petroleum Product Storage at Refineries Floating Roof Tanks (Varying Sizes)

Vent Height: 2 Velocity: 0.0

Distillate Fuel #2: Withdrawal Loss AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00 **Heat Content:**  Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0 February: 0 April: 0

July: 0

October: 0

May: 0

August: 0

November: 0

Units: 1000 Gallons Distillate Oil (No. 2) Thro Annual Throughtput: 5871.10

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Estimated Emissions - No RE Tons/Yr: Method: Pollutant Description Factor: \_Pollutant

**VOC** 

Over All % Capture Control

**VOLATILE ORGANIC COMPOUNDS** 

3

0.00496

Comment:

**Group Information** 

Group Id: 012

Design Capacity:

Group Description: TANK #106 - #2 FUEL OIL

Actual Operating Schedule for This Group:

Hours/Day 24 Start Time: 0001

Days/Week 7

Weeks/Year 52

End Time: 2359

Page 18

Percent Quarterly Throughput:

Dec.-Feb. Mar.- May

25

Sept.- Nov. Jun.- Aug. 25 25

Desgin Cap. Units:

O3 Season Days 91

Comment:

25

**Process Unit Information** 

Process Unit ID: 1 Stack #: 99

**Description: STANDING LOSS** Description: FUGITIVE

Source Classification Code (SCC): 40301155 Height: 0

Description: Petroleum Product Storage at Refineries Diameter: 0.00

Floating Roof Tanks (Varying Sizes) Vent Height: 2 Distillate Fuel #2: Standing Loss - Internal Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2) Exit Temp.: 0 Flow Rate:

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0 April: 0 July: 0 October: 0 January: 0 February: 0 May: 0 August: 0 November: 0

Annual Throughtput: 4509.54 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Over All % Tons/Yr:

Method: Factor: Pollutant Pollutant Description Capture Control VOC **VOLATILE ORGANIC COMPOUNDS** 3 0.00955

Comment:

Process Unit ID:

2

Stack #:

Description: WITHDRAWAL LOSS

Description: FUGITIVE

1

Source Classification Code (SCC): 40301120

Height: 0

Description: Petroleum Product Storage at Refineries Floating Roof Tanks (Varying Sizes)

Diameter: 0.00

Distillate Fuel #2: Withdrawal Loss

Vent Height: 2 Velocity: 0.0

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

Heat Content: 0.00

Flow Rate:

Monthly Throughtput:

June: 0

September: 0

January: 0

December: 0

March: 0 April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 5936.22

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

## **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

### **Process Unit Emissions**

3

Pollutant Pollutant Description Estimated Emissions - No RE Tons/Yr: Factor:

Over All % Capture Control

VOC

**VOLATILE ORGANIC COMPOUNDS** 

Method:

0.005015

Comment:

# **Group Information**

Group Id:

013

Group Description: TANK #108 - #2 OIL

Actual Operating Schedule for This Group:

Design Capacity:

Desgin Cap. Units:

Hours/Day 24 Start Time: 0001

Percent Quarterly Throughput:

Days/Week 7

Weeks/Year 52 End Time: 2359

Dec.-Feb.

Mar.- May

Jun.- Aug. Sept.- Nov. O3 Season Days 91

25

25

25

25

Comment:

Process Unit ID: Stack #: 99

Description: STANDING LOSS Description: FUGITIVE

Source Classification Code (SCC): 40301155 Height: 0

Description: Petroleum Product Storage at Refineries Diameter: 0.00 Floating Roof Tanks (Varying Sizes) Vent Height: 2 Distillate Fuel #2: Standing Loss - Internal Velocity: 0.0

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2) Exit Temp.: 0 Flow Rate:

0.00 **Heat Content:** Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 1

Monthly Throughtput:

December: 0 March: 0 June: 0 September: 0 January: 0 April: 0 July: 0 October: 0 November: 0 February: 0 May: 0 August: 0

Units: 1000 Gallon-Years Distillate Oil (No. 2) Annual Throughtput: 4466.7

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Over All % Tons/Yr: Factor: Capture Control Method: Pollutant Pollutant Description

**VOLATILE ORGANIC COMPOUNDS** 3 0.009545 VOC

Comment:

**Process Unit Information** 

Process Unit ID: 2 Stack #: 99

Description: WITHDRAWAL LOSS Description: FUGITIVE

Source Classification Code (SCC): 40301105 Height: 0 Description: Petroleum Product Storage at Refineries Diameter: 0.00 Floating Roof Tanks (Varying Sizes) Vent Height: 2 Gasoline RVP 10: Standing Loss (250000 Bbl. Tank Size) Velocity: 0.0 AP-42 Units: 1000 Gallon-Years Gasoline Storage Capac Exit Temp.: 0

Flow Rate: Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 **Heat Content:** 1

Monthly Throughtput:

March: 0 June: 0 December: 0 September: 0 July: 0 October: 0 January: 0 April: 0 February: 0 May: 0 August: 0 November: 0

Annual Throughtput: 5879.83 Units: 1000 Gallon-Years Gasoline Storage Capac

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Estimated Emissions - No RE

Factor:

Tons/Yr:

Over All % Capture Control

VOC

VOLATILE ORGANIC COMPOUNDS

Method: 3

0.00497

Comment:

Pollutant

**Group Information** 

Group Id:

Design Capacity:

014

Pollutant Description

Group Description: TANK #109 - #2 OIL

Actual Operating Schedule for This Group:

Hours/Day 24

Start Time: 0001

Days/Week 7

Weeks/Year End Time: 2359 52

O3 Season Days 91

Percent Quarterly Throughput:

Dec.-Feb.

Mar.- May

Sept.- Nov. Jun.- Aug.

Desgin Cap. Units:

25

25

25

25

Comment:

**Process Unit Information** 

Process Unit ID:

1

**Description: STANDING LOSS** 

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301155

Description: Petroleum Product Storage at Refineries

Floating Roof Tanks (Varying Sizes) Distillate Fuel #2: Standing Loss - Internal

AP-42 Units: 1000 Gallon-Years Distillate Oil (No. 2)

Exit Temp.: 0 Flow Rate:

Vent Height: 2

Height: 0

Diameter: 0.00

Velocity: 0.0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 Heat Content: 1

Monthly Throughtput:

December: 0 January: 0

March: 0 April: 0

July: 0

June: 0

September: 0 October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 4469.68

Comment:

**Process Unit Control Equipment** 

Units: 1000 Gallon-Years Distillate Oil (No. 2)

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Estimated Emissions - No RE Tons/Yr: Factor:

Over All % Capture Control

Pollutant VOC

**VOLATILE ORGANIC COMPOUNDS** 

Pollutant Description

Method: 3

0.00955

Comment:

Process Unit ID:

2

Description: WITHDRAWAL LOSS

Stack #: 99

Description: FUGITIVE

Source Classification Code (SCC): 40301120

Description: Petroleum Product Storage at Refineries

Diameter: 0.00

Floating Roof Tanks (Varying Sizes) Distillate Fuel #2: Withdrawal Loss

Vent Height: 2

AP-42 Units: 1000 Gallons Distillate Oil (No. 2) Thro

Velocity: 0.0

Exit Temp.: 0

Height: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash:

0.00 **Heat Content:**  Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 5883.76

Units: 1000 Gallons Distillate Oil (No. 2) Thro

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

**Process Unit Emissions** 

Method:

Estimated Emissions - No RE Tons/Yr:

Over All % Capture Control

Pollutant VOC

**VOLATILE ORGANIC COMPOUNDS** 

3

0.00497

Comment:

**Group Information** 

Group Id:

022

Group Description: 150 KW EMERGENCY GENERATO

Actual Operating Schedule for This Group:

7

Pollutant Description

Hours/Day 24

Design Capacity: 1.46

Desgin Cap. Units: 1

Days/Week

O3 Season Days 91

Start Time: 0001

Percent Quarterly Throughput: Mar.- May

Weeks/Year

Factor:

52 End Time: 2359

Dec.-Feb. 25

25

Jun.- Aug. 25

Sept.- Nov. 25

Comment:

06/26/2009 10:01:35

Process Unit ID:

1

Description: DIESEL FUEL BURNED

Stack #: 2

Description: BOILER 027

Source Classification Code (SCC): 20300101

Description: Internal Combustion Engines - Commercial/Institutional

Height: 14 Diameter: 2.00

Distillate Oil (Diesel)

Vent Height: 0

Reciprocating

AP-42 Units: 1000 Gallons Distillate Oil (Diesel) Bur

Velocity: 0.0

Fuel Quality: Percent Sulfur: 0.050 Percent Ash:

0.00 Heat Content:

Exit Temp.: 0
Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

1

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 0.3197

Units: 1000 Gallons Distillate Oil (Diesel) Bur

Comment:

**Process Unit Control Equipment** 

No Control Devices found for this Process Unit.

Process Unit Emissions							
Pollutant	Pollutant Description	Method:	Estimated En Factor:	nissions - No RE Tons/Yr:	Over All % Capture Control		
10024972	NITROUS OXIDE (N2O) , NOT (NO2)	9	0.13	2.08e-5			
Comment:							
107028	ACROLEIN	9	0.0128	2.05e-6			
Comment:							
124389	CARBON DIOXIDE	9	22680	3.625398			
Comment:							
18540299	CHROMIUM (VI)	9	0.00027	4.32e-8			
Comment:							
246	POLYCYCLIC ORGANIC MATTER	9	0.0055	8.79e-7			
Comment:							
50000	FORMALDEHYDE	9	0.16	2.56e-5			
Comment:							
600	2,3,7,8-TCDD TEQ	9	2.6500e-8	4.2e-12			
Comment:		_					
71432	BENZENE	9	0.129	2.06e-5			
Comment:	VEAR	0	0.00127	201 5			
7439921	LEAD	9	0.00126	2.01e-7			
Comment: <b>7439965</b>	MANGANESE	9	0.000832	1.33e-7			
Comment:	MANGANESE	7	0.000032	1.330-1			
Comment.							

06/26/2009 10:01:35

Process Unit Emissions						
Dallutant	Dalladand Dagarindian	Method:	Estimated Emissions - No RE Factor: Tons/Yr:		Over All % Capture Control	
Pollutant 7439976	Pollutant Description  MERCURY	9	0.0000418	6.68e-9	Capture Control	
Comment:			313333113	0.000		
7440020	NICKEL	9	0.00064	1.02e-7		
Comment:		-				
7440382	ARSENIC	9	0.0015	2.40e-7		
Comment:				_,,,,,		
7440439	CADMIUM	9	0.00067	1.07e-7		
Comment:						
74828	METHANE	9	0.06	9.59e-6		
Comment:						
75070	ACETALDEHYDE	9	0.106	1.69e-5		
Comment:						
СО	CARBON MONOXIDE	9	131.1	0.020956		
Comment:						
NH3	AMMONIA	9	0.8	1.28e-4		
Comment:						
NOX	NITROGEN OXIDES	9	608.6	0.097285		
Comment:						
PM10-FIL	PRIMARY PM10, FILTERABLE PORTION	9	17.25	0.002757		
Comment:	<i>,</i>					
PM25-FIL	PRIMARY PM2.5, FILTERABLE PORTION	9	17.25	0.002757		
Comment:	·					
SO2	SULFUR DIOXIDE	9	141	0.001127		
Comment:						
voc	VOLATILE ORGANIC COMPOUNDS	9	48.3	0.007721		
Comment:						

### **Group Information**

Group Id:

028

Group Description: BOILER #1

Actual Operating Schedule for This Group:

Hours/Day 24 Start Time: 0001

Days/Week 7

Weeks/Year End Time: 2359 52

O3 Season Days 91

Percent Quarterly Throughput:

Design Capacity: 33.5

Dec.-Feb.

Mar.- May

Sept.- Nov. Jun.- Aug.

30

30

15 25

Desgin Cap. Units: 1

Comment:

#### **Process Unit Information**

Process Unit ID:

Stack #: 1

1

Description: #6 FUEL OIL

Source Classfiication Code (SCC): 10200402

Description: BOILER 026

Description: External Combustion Boilers - Industrial

Diameter: 1.30 Vent Height: 0

Height: 18

Residual Oil 10-100 Million Btu/hr \*\*

Velocity: 0.0

AP-42 Units: 1000 Gallons Residual Oil Burned

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.500 Percent Ash: 0.01 **Heat Content:**  Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 362.781

Units: 1000 Gallons Residual Oil Burned

Comment:

# **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

Process Unit Emissions						
_Pollutant	Pollutant Description	Method:	Estimated Em Factor:	Over All % Capture Control		
10024972	NITROUS OXIDE (N2O) , NOT (NO2)	9	0.11	0.019953	-	
Comment:						
107028	ACROLEIN	9	0.0104	0.001887		
Comment:						
124389	CARBON DIOXIDE	9	25873	4693.116		
Comment:						
18540299	CHROMIUM (VI)	9	0.000152	2.76e-5		
Comment:						
246	POLYCYCLIC ORGANIC MATTER	9	0.0013	2.36e-4		
Comment:						
50000	FORMALDEHYDE	9	0.033	0.005986		
Comment:						

06/26/2009 10:01:35

	Process Unit Emissions					
_Pollutant	Pollutant Description	Method:	Estimated Emi Factor:	ssions - No RE Over All % Tons/Yr: Capture Control		
600	2,3,7,8-TCDD TEQ	9	2.6500e-8	4.81e-9		
Comment:						
71432	BENZENE	9	0.000214	3.88e-5		
Comment:						
7439921	LEAD	9	0.0042	0.000762		
Comment:						
7439965	MANGANESE	9	0.003	0.000544		
Comment:						
7439976	MERCURY	9	0.000113	2.05e-5		
Comment:						
7440020	NICKEL	9	0.0845	0.015328		
Comment:						
7440382	ARSENIC	9	0.00132	2.39e-4		
Comment:						
7440439	CADMIUM	9	0.000398	7.22e-5		
Comment:						
7440484	COBALT	9	0.00602	0.001092		
Comment:						
74828	METHANE	9	1.07	0.194088		
Comment:						
75070	ACETALDEHYDE	9	0.044	0.007981		
Comment:						
CO	CARBON MONOXIDE	8	5.000E0	0.906953		
Comment:						
NH3	AMMONIA	8	8.000E-1	0.145112		
Comment:						
NOX	NITROGEN OXIDES	8	5.500E1	9.976478		
Comment:						
PM10-FIL	PRIMARY PM10, FILTERABLE PORTION	9	6.67	1.209875		
Comment: A	Comment: AP-42 Table 1.3-5, emission factor = 7.17A (A=1.12(S)+0.37): [7.17 X (1.12 X 0.5 + 0.37)] = 6.67 lbs/1,000 gal					
SO2	SULFUR DIOXIDE	8	1.57E2	14.23915		
Comment:						
TNMOC	TOTAL NON-METHANE ORGANIC	8	2.800E-1	0.050789		
Comment:						
VOC	VOLATILE ORGANIC COMPOUNDS	9	0.28	0.050789		
Comment: I	Emission factor based on AP-42 and license limit.					

### **Group Information**

Group Id:

030

Group Description: BOILER #2

Actual Operating Schedule for This Group:

Hours/Day 24

Start Time: 0001

Design Capacity: 33.5 Desgin Cap. Units: 1

Days/Week Weeks/Year 52

End Time: 2359

Percent Quarterly Throughput:

Dec.-Feb.

Mar.- May Jun.- Aug. Sept.- Nov. O3 Season Days 91

30

30

15

Comment:

### **Process Unit Information**

**Process Unit ID:** 

1

Stack #:

Description: #6 FUEL OIL

Description: BOILER 026

Source Classification Code (SCC): 10200402

Height: 18

Description: External Combustion Boilers - Industrial

25

Diameter: 1.30

Residual Oil 10-100 Million Btu/hr \*\* Vent Height: 0

Velocity: 0.0

AP-42 Units: 1000 Gallons Residual Oil Burned

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.500 Percent Ash:

1

Flow Rate:

Monthly Throughtput:

Heat Content:

December: 0 January: 0 March: 0 April: 0 June: 0 July: 0

September: 0 October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 362.781

Units: 1000 Gallons Residual Oil Burned

0.01

Comment:

# **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

Process Unit Emissions						
Pollutant	Pollutant Description	Method:	Estimated Em Factor:	issions - No RE Tons/Yr:	Over All % Capture Control	
10024972	NITROUS OXIDE (N2O), NOT (NO2)	9	0.11	0.019953	Capture Control	
Comment:						
107028	ACROLEIN	9	0.0104	0.001887		
Comment:						
124389	CARBON DIOXIDE	9	25873	4693.116		
Comment:						
18540299	CHROMIUM (VI)	9	0.000152	2.76e-5		
Comment:						
246	POLYCYCLIC ORGANIC MATTER	9	0.0013	2.36e-4		
Comment:						
50000	FORMALDEHYDE	9	0.033	0.005986		
Comment:						

	Process Unit Emissions					
Pollutant	Pollutant Description	Method:	Estimated Emis Factor:	ssions - No RE Tons/Yr:	Over All % Capture Control	
600	2,3,7,8-TCDD TEQ	9	2.6500e-8	4.81e-9	<u> </u>	
Comment:	•					
71432	BENZENE	9	0.000214	3.88e-5		
Comment:						
7439921	LEAD	9	0.0042	0.000762		
Comment:						
7439965	MANGANESE	9	0.003	0.000544		
Comment:						
7439976	MERCURY	9	0.000113	2.05e-5		
Comment:						
7440020	NICKEL	9	0.0845	0.015328		
Comment:						
7440382	ARSENIC	9	0.00132	2.39e-4		
Comment:						
7440439	CADMIUM	9	0.000398	7.22e-5		
Comment:						
7440484	COBALT	9	0.00602	0.001092		
Comment:						
74828	METHANE	9	1.07	0.194088		
Comment:						
75070	ACETALDEHYDE	9	0.044	0.007981		
Comment:						
СО	CARBON MONOXIDE	8	5.000E0	0.906953		
Comment:						
NH3	AMMONIA	8	8.000E-1	0.145112		
Comment:						
NOX	NITROGEN OXIDES	8	5.500E1	9.976478		
Comment:						
PM10-FIL	PRIMARY PM10, FILTERABLE PORTION	9	6.67	1.209875		
Comment: AP-42 Table 1.3-5, emission factor = $7.17A$ (A=1.12(S)+0.37): [ $7.17 \times (1.12 \times 0.5 + 0.37)$ ] = $6.67$ lbs/1,000 gal						
SO2	SULFUR DIOXIDE	8	1.57E2	14.23915		
Comment:						
TNMOC	TOTAL NON-METHANE ORGANIC	8	2.800E-1	0.050789		
Comment:						
voc	VOLATILE ORGANIC COMPOUNDS	9	0.28	0.050789		
Comment: Emission factor based on AP-42 and license limit.						

### **Group Information**

Group Id:

098

Group Description: TRUCK LOADING RACKS

Actual Operating Schedule for This Group:

Hours/Day

Start Time: 0001

**Design Capacity:** 

Desgin Cap. Units:

Days/Week 6 Weeks/Year 52

**End Time: 2359** 

Percent Quarterly Throughput: Mar.- May

Dec.-Feb.

Jun.- Aug. Sept.- Nov. O3 Season Days 78

25

25

25

25

Comment:

#### **Process Unit Information**

Process Unit ID:

1

Description: ALL FUELS

Stack #:

Description: FUGITIVE

Source Classification Code (SCC): 40400250

Heat Content:

Height: 0

Description: Petroleum Liquids Storage (non-Refinery)

Diameter: 0.00 Vent Height: 2

**Bulk Plants Loading Racks** 

Velocity: 0.0

AP-42 Units: 1000 Gallons Liquid Transferred

Exit Temp.: 0

Fuel Quality: Percent Sulfur: 0.000 Percent Ash: 0.00 1

Flow Rate:

Monthly Throughtput:

December: 0

March: 0

June: 0

September: 0

January: 0

April: 0

July: 0

October: 0

February: 0

May: 0

August: 0

November: 0

Annual Throughtput: 36498.9

Units: 1000 Gallons Liquid Transferred

Comment:

## **Process Unit Control Equipment**

No Control Devices found for this Process Unit.

#### **Process Unit Emissions**

Estimated Emissions - No RE Over All % Tons/Yr: Method: Factor: Capture Control **Pollutant** Pollutant Description

VOC

Comment:

**VOLATILE ORGANIC COMPOUNDS** 

3

0.003

# **Facility Pollutant Emissions Summary**

Facility ID: 00022 County - 027 State - 23

CAS	Pollutant		Emissions tons / year
10024972	NITROUS OXIDE (N2O) , NOT (NO2)	0.039927	0.039927
107028	ACROLEIN	0.003776	0.003776
124389	CARBON DIOXIDE	9389.857	9389.857
18540299	CHROMIUM (VI)	5.52e-5	5.52e-5
246	POLYCYCLIC ORGANIC MATTER	0.000473	0.000473
50000	FORMALDEHYDE	0.011998	0.011998
600	2,3,7,8-TCDD TEQ	9.62e-9	9.62e-9
71432	BENZENE	9.82e-5	9.82e-5
7439921	LEAD	0.001524	0.001524
7439965	MANGANESE	0.001088	0.001088
7439976	MERCURY	4.10e-5	4.10e-5
7440020	NICKEL	0.030656	0.030656
7440382	ARSENIC	0.000478	0.000478
7440439	CADMIUM	1.45e-4	1.45e-4
7440484	COBALT	0.002184	0.002184
74828	METHANE	0.388186	0.388186
75070	ACETALDEHYDE	0.015979	0.015979
co	CARBON MONOXIDE	1.834862	1.834862
NH3	AMMONIA	0.290352	0.290352
NOX	NITROGEN OXIDES	20.05024	20.05024
PM10-FIL	PRIMARY PM10, FILTERABLE PORTION ONLY	2.422507	2.422507
PM25-FIL	PRIMARY PM2.5, FILTERABLE PORTION ONLY	0.002757	0.002757
SO2	SULFUR DIOXIDE	28.47943	28.47943
TNMOC	TOTAL NON-METHANE ORGANIC CARBON	0.101578	0.101578
voc	VOLATILE ORGANIC COMPOUNDS	0.804409	0.804409